Course Description: This survey course is designed for liberal arts and technical students. The course provides an opportunity to acquire an appreciation of the nature of mathematics and its relation to other aspects of our culture. The course is rigorous but not rigid. Core topics include critical thinking, problem solving, number systems, number theory, ratios, proportions, quadratic equations, functions, graphs, consumer math, financial management, metric measurement, set theory, and selected topics from geometry, probability and statistics. Prerequisites: Math 025 with a grade of “C” or better or Math Placement Test. (Algebra 46 – 61)


Course Objectives: Students will demonstrate a working knowledge of the material covered in the textbook.

Outcomes Assessment: As part of departmental analysis of outcomes in this course and its place in the Mathematics program, student completion of the prerequisite, success in the current course, success in subsequent courses and student satisfaction will be reviewed by the instructor. A report containing this information will be submitted by department faculty to determine what, if any changes can be made to improve the course in terms of content, focus and instruction.

Grade Determination: 3 regular exams @ 100 points each
1 final exam @ 100 points

Students may replace 1 regular exam with their worksheet average.

360 - 400 points A
320 - 359 points B
280 - 319 points C
240 - 279 points D
0 - 239 points F

Policies and Procedures: Although attendance is not a factor in grade determination, each student is of course responsible for any material covered and any assignments and announcements made in regularly scheduled class meetings. Cheating will result in all involved students getting 0’s for that activity. Allow yourself an adequate amount of time to complete the homework. Math help is available in Shields 207. Math is not a spectator sport. You can use a scientific or graphing calculator.

Behavioral Policies: Students can refer to catalog pages 16-17.

Turn off cell phones.
Spring 2007    MATH 123    (tentative schedule)

Jan. 16 Sect. 1.1 Inductive & Deductive Reasoning
18 Sect. 1.2 Estimation & Graphs

20 Spring
22 Break

23 Sect. 1.3 Problem Solving
25 Sect. 2.1 Basic Set Concepts
   Sect. 2.2 Venn Diagram & Subsets

27 Sect. 7.5 Systems of Linear Equations
29 Sect. 8.1 Percent
   Sect. 8.2 Simple Interest

30 Sect. 2.3 Venn Diagrams & Set Operations
Feb. 1 Sect. 2.4 Operations & Diagrams with Three Sets
   Sect. 2.5 Surveys and Cardinal Numbers

3 Apr.
3 Sect. 8.3 Compound Interest
5 Sect. 8.4 Installment Buying
   Sect. 8.5 Home Ownership

6 Exam 1
8 Review Sect. 4.1 Hindu-Arabic & Positional Systems
   Sect. 4.2 Number Bases in Positional Systems

10 Sect. 8.6 Stocks, Bonds & Mutual Funds
12 Sect. 9.1 Metric Length
   Exam 3

13 Sect. 5.1 Prime & Composite Numbers
15 Sect. 5.2 Integers

17 Review Sect. 9.2 Metric Area/Volume
19 Sect. 9.3 Metric Weight & Temp.
   Sect. 11.1 Fund. Counting Principle

20 Sect. 5.3 Rational Numbers
22 Sect. 5.4 Irrational Numbers
   Sect. 5.5 Real Numbers & Properties

24 Sect. 11.2 Permutations
26 Sect. 11.3 Combinations
   Sect. 12.1 Samples, Freq. Distr.

27 Sect. 5.6 Exponents & Scientific Notation
Mar. 1 Sect. 5.7 Arithmetic & Geometric Sequences
   Sect. 6.4 Ratios, Proportions & Variations

6 Sect. 6.6 Solving Quadratic Equations
8 Sect. 7.1 Graphing & Functions
   Exam 2

13 Review Sect. 7.2 Linear Functions & Graphs
15 Sect. 7.3 Quadratic Functions & Graphs
   Sect. 7.4 Exponential Functions

7 Final
8 *
9 *
10 Exams
On-line course evaluation statement: Students are strongly encouraged to complete evaluations at the end of the course. Evaluations are very important to assist the teaching staff to continually improve the course. Evaluations are available online at: http://evaluations.csi.edu. Evaluations open up two weeks prior to the end of the course. The last day to complete an evaluation is the last day of the course. During the time the evaluations are open, students can complete the course evaluations at their convenience from any computer with Internet access, including in the open lab in the library and in the SUB. When students log in they should see the evaluations for the courses in which they are enrolled. Evaluations are anonymous. Filling out the evaluation should only take a few minutes. Your honest feedback is greatly appreciated!

Disabilities: Any student with a documented disability may be eligible for related accommodations. To determine eligibility and secure services, students should contact the coordinator of Disability Services at their first opportunity after registration for a class. Student Disability Services is located on the second floor of the Taylor Building on the Twin Falls Campus. 208-732-6250 (voice) or 208-734-9929 (TTY) or e-mail aflannery@csi.edu. Refer to page 19 in the catalog.